

Periodic Table

Main - Group Elements		Transition Elements										Main - Group Elements							
Period																			
	1A (1)	2A (2)											3A (13)	4A (14)	5A (15)	6A (16)	7A (17)	8A (18)	
1	1 H Hydrogen 1.008*																		2 He Helium 4.003
2	3 Li Lithium 6.941*	4 Be Beryllium 9.012											5 B Boron 10.811*	6 C Carbon 12.011*	7 N Nitrogen 14.007*	8 O Oxygen 15.999*	9 F Fluorine 18.998	10 Ne Neon 20.180	
3	11 Na Sodium 22.990	12 Mg Magnesium 24.305	3B (3)	4B (4)	5B (5)	6B (6)	7B (7)	(8)	8B (9)	(10)	1B (11)	2B (12)	13 Al Aluminum 26.982	14 Si Silicon 28.086*	15 P Phosphorous 30.973	16 S Sulfur 32.066*	17 Cl Chlorine 35.453*	18 Ar Argon 39.948	
4	19 K Potassium 39.089	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.867	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.409	31 Ga Gallium 69.723	32 Ge Germanium 72.610	33 As Arsenic 74.922	34 Se Selenium 78.960	35 Br Bromine 79.904	36 Kr Krypton 83.798	
5	37 Rb Rubidium 85.468	38 Sr Strontium 87.620	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.940	43 Tc Technetium (98)	44 Ru Ruthenium 101.070	45 Rh Rhodium 102.906	46 Pd Palladium 106.42	47 Ag Silver 107.868	48 Cd Cadmium 112.411	49 In Indium 114.800	50 Sn Tin 118.710	51 Sb Antimony 121.750	52 Te Tellurium 127.600	53 I Iodine 126.904	54 Xe Xenon 131.290	
6	55 Cs Cesium 132.905	56 Ba Barium 137.327		72 Hf Hafnium 178.490	73 Ta Tantalum 180.948	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.230	77 Ir Iridium 192.217	78 Pt Platinum 195.08	79 Au Gold 196.967	80 Hg Mercury 200.590	81 Tl Thallium 204.383*	82 Pb Lead 207.200	83 Bi Bismuth 208.980	84 Po Polonium (209)	85 At Astatine (210)	86 Rn Radon (222)	
7	87 Fr Francium (223)	88 Ra Radium (226)		104 Rf Rutherfordium (267)	105 Db Dubnium (268)	106 Sg Seaborgium (271)	107 Bh Bohrium (272)	108 Hs Hassium (270)	109 Mt Meitnerium (276)	110 Ds Darmstadtium (281)	111 Rg Roentgenium (280)	112 Cn Copernicium (285)	113 Uut Ununtrium (284)	114 Fl Flerovium (289)	115 Uup Ununpentium (288)	116 Lv Livermorium (293)	117 Uus Ununseptium ( 294 )	118 Uuo Ununoctium (294)	

Classifications

Non-Metals
Metalloids
Metals
Unknown

— Atomic Number  
Number of Protons & Electrons

— Atomic Mass  
Average Mass of Protons & Neutrons  
Includes isotopes

Groups

Alkali Metals (1A)
Alkaline Earth (2A)
Carbon Family (4A)
Nitrogen Family (5A)
Oxygen Family (6A)
Halogens (7A)
Noble Gases (8A)
Diatomic Molecules
Transition Metals (1B - 8B)

State\*\*

Solid
Liquid
Liquid ***
Gas
Synthetic

\*\* at Standard  
Temperature (0°C)  
and Pressure (1 atm)

\*\*\* at or slightly  
above room  
temperature (40°C)

Inner-Transition Elements

6	Lanthanides (Rare Earths)	57 La Lanthanum 138.906	58 Ce Cerium 140.116	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.240	61 Pm Promethium (147)	62 Sm Samarium 150.360	63 Eu Europium 151.965	64 Gd Gadolinium 157.250	65 Tb Terbium 158.925	66 Dy Dysprosium 162.50	67 Ho Holmium 164.930	68 Er Erbium 167.260	69 Tm Thulium 168.934	70 Yb Ytterbium 173.040	71 Lu Lutetium 174.967
7	Actinides	89 Ac Actinium 227.028	90 Th Thorium 232.038	91 Pa Protactinium 231.035	92 U Uranium 238.029	93 Np Neptunium (237)	94 Pu Plutonium (244)	95 Am Americium (243)	96 Cm Curium (247)	97 Bk Berkelium (247)	98 Cf Californium (251)	99 Es Einsteinium (252)	100 Fm Fermium (257)	101 Md Mendelevium (258)	102 No Nobelium (259)	103 Lr Lawrencium (262)

\* To more accurately convey variations in atomic mass, the international agency IUPAC, in 2009, set upper and lower bounds of the atomic mass of these elements.